SCSJ1023 Programming Technique II Semester 2, 2018/2019

Individual Report for the Group Project

Notes: This report is to be submitted individually.

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Group Project Title	The Pharmacy

A. Implementation of Classes

Describe the class (or classes) you implemented for the project. Give the estimate percentage of how much you did on the class. For example, if you did all the code for the class, then you write 100%. Also, give the location of the code you did.

	Percentage of		Location	
Class Name	contribution	File	Line Numbers	Remarks
Date	100%	Afile.cpp	18-36	Default Argument Constructor because it is a good practice to always initialize the members.
Medicine	50%	Afile.cpp	37-55	Const for the getters is good practice
Pharmacy	80%	Afile.cpp	93-137	Iequals used for incase sensitive compare
Patient	50%	Afile.cpp	191-214	Asigning history to use it in outputfile
Person	0%	Afile.cpp	-	-
Doctor	20%	Afile.cpp	250-264	Polymorphisim of the function print()

B. Implementation of OOP Concepts

Describe the concept (or concepts) you implemented for the project. Give the estimate percentage of how much you did on the concept. Explain why the concept is needed in your project, and explain the general idea of how you implemented it.

The concepts to be described here include **Association**, **Inheritance and Polymorphism**. Note that, each member of a group is not necessarily to implement all the concepts.

	Percentage of	Loca	tion	Why is this concept needed?	General idea of the
OOP Concept	contribution	File	Line Num.		implementation
Polymorphisim	80%	Afile.cpp	200 & 251	to have the ability (in	The function print() when called
				programming) to present the	from different classes will output
				same interface for differing	different info based on the class it
				underlying forms (data	called from.
				types).	
Inheritance	50%	Afile.cpp	216 & 159	To have specialized classes	Class Patient and class Doctor
				that have attributes and	both inherit the name and the id
				methods of their own, and in	
				the same time inherit the	
				attributes and methods from	
				the parent class	
Aggregation	20%	Afile.cpp	95	The life span of the object is	The class dr having a list of
				not dependening on the class	patients, if for some reason dr has
				containing it.	to be deleted, that will not delete
					the list of patients, it will only
					UNLINK them from doctor.

Composition	50%	Afile.cpp	40 & 166	The life span of the object is	If Medicine gets deleted, then
				dependening on the class	ofcourse the object dateOfExpiry
				containing it.	will be of no use, so it will be
					deleted automatically when the
					Medicine is deleted
Encapsulation	100%	Afile.cpp	-	it provides your code -	All Classes are gathering different
				security, flexibility and its	attributes and methods like a
				easy maintainability	collection
Data hiding	100%	Afile.cpp	-	useful in hiding the	All private members of classes
				data(instance variables) of a	cannot be accessed directly by the
				class from an illegal direct	object so that will always keep
				access	them secured from illegal
					modification.

C. Other Implementations (Optional)

This part is only to be filled in should you have other things you did for your project but have not been mentioned in Part A and B.

Things / Code Done	Percentage of contribution	Remarks
Class Art	100%	Used to encapsulate methods to print a string
		into an ASCII art on the screen, welcoming
		messages for example. See #inclue "Art.h"
Function iequals	100%	function to compare two string not-case
		senstive (like asPiRin)
Curses library	100%	Useful library to create user interface menu
		that is interactive with the user.